



# 2001 Toxics Release Inventory

## OKLAHOMA

### Reported Releases and Other Waste Management Activities (in pounds)

	Total
On-site Releases	25,268,743
Air Emissions	17,377,943
Surface Water Discharges	2,391,127
Underground Injection Class I Wells	4,828
Underground Injection Class II-V Wells	0
On-site Land Releases to RCRA Subtitle C Landfills	2,518,028
Other On-site Land Releases	2,976,818
Off-site Releases (Transfers Off-site to Disposal)*	3,618,278
<b>Total On- and Off-site Releases</b>	<b>28,887,021</b>
Recycled On-site	56,654,350
Recycled Off-site	20,705,689
Energy Recovery On-site	64,445,608
Energy Recovery Off-site	2,000,748
Treated On-site	38,660,757
Treated Off-site**	2,232,749
Quantity Released On- and Off-site***	28,816,690
<b>Total Production-related Waste Managed</b>	<b>213,516,591</b>
<b>Non-production-related Waste Managed</b>	<b>185,842</b>
<b>Transfers Off-site for Further Waste Management, including Disposal</b>	
Recycling	20,194,173
Energy Recovery	1,994,532
Treatment	676,374
Publicly Owned Treatment Works (POTWs)	1,144,309
Metals and Metal Category Compounds*	10,256
Non-metal TRI Chemicals**	1,134,053
Other Off-site Transfers****	2,431
Transfers Off-site to Disposal (not including metals to POTWs)	3,725,078
<b>Total Transfers Off-site for Further Waste Management, including Disposal</b>	<b>27,736,898</b>

\* Transfers to POTWs of metals and metal category compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

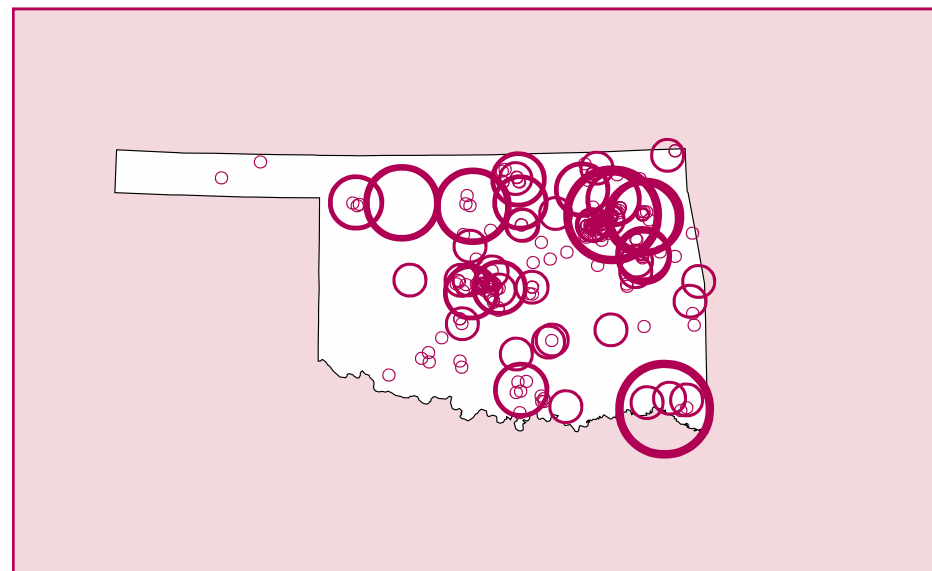
#### State Contact

Monty Elder  
P.O. Box 1677  
Oklahoma City, OK 73101-1677  
(405) 702-1017  
Fax: (405) 702-1001  
monty.elder@deq.state.ok.us

#### EPA Regional Contact

Morton Wakeland  
USEPA Region 6 (6PDT)  
1445 Ross Avenue, Suite 1200  
Dallas, TX 75202-2733  
(214) 665-8116  
wakeland.morton@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 566-0250  
tri.us@epa.gov



The largest circle in the state map represents the largest facility for on-site releases in the state of Oklahoma. All circles are proportionally-sized to represent the on-site releases at each facility within this state.

#### State/TRI Data

Population	3,469,577
Square Miles	68,679
Total Facilities	343
Total Forms	1,236
Form As	219

	Total
<b>National Rank for Total On- and Off-site Releases*</b>	
Rank	37
Pounds	28,887,021
<b>National Rank for Total On-site Releases**</b>	
Rank	35
Pounds	25,268,743
<b>National Rank for Total Releases within State***</b>	
Rank	35
Pounds	33,022,192
<b>National Rank for Production-related Waste Managed</b>	
Rank	31
Pounds	213,516,591

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 2001 Toxics Release Inventory

## OKLAHOMA

### On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the State (All Chemicals)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	5,995,915	81,112	0	25,716	1,850	6,104,593	4,502	1,850	0
67-56-1	Methanol	3,930,686	16,249	0	8,574	2,810	3,958,319	647,857	255	2,555
—	Barium compounds	40,980	6,806	0	2,226,712	299,605	2,574,103	36,389	210,480	89,125
—	Nitrate compounds	10	2,227,141	0	48,220	0	2,275,371	2,373,822	0	0
—	Zinc compounds	28,394	5,693	1,812	680,876	1,198,267	1,915,042	538,424	544,907	681,082

### On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the State

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Lead compounds	6,554.83	260.27	562.00	397,852.41	66,927.73	472,157.24	44,365.74	6,508.09	61,306.95
—	Polycyclic aromatic compounds	2,324.44	17.10	0.00	171.75	87,292.22	89,805.51	42.00	86,775.45	516.77
1336-36-3	Polychlorinated biphenyls (PCBs)	20.00	0.00	0.00	69,557.00	0.00	69,577.00	0.24	0.00	0.00
7439-92-1	Lead	7,598.14	19.14	0.00	43,718.00	14,738.68	66,073.96	1,298.76	42,363.81	12,720.39
—	Mercury compounds	1,459.29	7.80	0.00	3,493.11	631.89	5,592.09	2,212.60	174.14	457.74
1582-09-8	Trifluralin	0.00	0.00	0.00	2,545.00	0.00	2,545.00	0.00	0.00	0.00
8001-35-2	Toxaphene	0.00	0.00	0.00	504.00	0.00	504.00	0.00	0.00	0.00
191-24-2	Benzo(g,h,i)perylene	137.05	4.10	0.00	5.24	29.37	175.76	0.70	29.37	0.00
7439-97-6	Mercury	54.70	1.11	0.00	38.00	2.23	96.04	602.10	2.23	0.00
79-94-7	Tetrabromobisphenol A	62.00	0.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
57-74-9	Chlordane	0.00	0.00	0.00	41.00	0.00	41.00	0.00	0.00	0.00
—	Dioxin and dioxin-like compounds	0.18	0.00	0.00	0.03	0.10	0.32	0.01	0.10	0.00
—	<i>Dioxin and dioxin-like compounds (in grams)</i>	<i>82.187</i>	<i>0.445</i>	<i>0.000</i>	<i>13.636</i>	<i>46.730</i>	<i>142.998</i>	<i>5.331</i>	<i>46.730</i>	<i>0.000</i>
309-00-2	Aldrin	—***	—	—	—	—	—	—	—	—
76-44-8	Heptachlor	—***	—	—	—	—	—	—	—	—
118-74-1	Hexachlorobenzene	—***	—	—	—	—	—	—	—	—
465-73-6	Isodrin	—***	—	—	—	—	—	—	—	—
72-43-5	Methoxychlor	—***	—	—	—	—	—	—	—	—
29082-74-4	Octachlorostyrene	—***	—	—	—	—	—	—	—	—
40487-42-1	Pendimethalin	—***	—	—	—	—	—	—	—	—
608-93-5	Pentachlorobenzene	—***	—	—	—	—	—	—	—	—

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\*\* No reports were submitted for these chemicals.

\*\* The chemical ranking is based on the amounts in this column.



# 2001 Toxics Release Inventory

## OKLAHOMA

### On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (All Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases	
	Underground Injection				On-site Releases to Land			(Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
Weyerhaeuser Co., Valliant, Mc Curtain	3,899,145	73,798	0	0	0	25,804	3,998,747	0	0
Terra Nitrogen Ltd. L.P., Claremore, Rogers	3,107,000	170,700	0	0	0	250	3,277,950	0	0
Safety-Kleen Lone & Grassy Mountain Inc.-Lone Mnt. Fac., Waynoka, Major	456	0	0	0	2,390,526	0	2,390,982	0	55,761
Farmland Inds. Inc., Enid, Garfield	2,287,775	5,510	0	0	0	250	2,293,535	0	0
Protein Techs. Intl. Inc., Pryor, Mayes	50	1,866,989	0	0	0	34,490	1,901,529	0	0
Grand River Dam Authority Coal Fired Complex, Chouteau, Mayes	114,708	849	0	0	0	1,642,447	1,758,004	0	0
Baker Petrolite Corp., Barnsdall, Osage	897,500	0	1,000	0	0	0	898,500	0	0
Conoco Inc. Ponca City Refy., Ponca City, Kay	564,586	45,946	0	0	0	4,518	615,050	15,435	173
Terra Intl. (Oklahoma) Inc., Woodward, Woodward	500,165	41,250	0	0	0	21,000	562,415	0	0
American Electric Power Northeastern Station, Oologah, Rogers	168,353	0	0	0	0	346,160	514,513	277	0

### On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (PBT Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Safety-Kleen Lone & Grassy Mountain Inc.-Lone Mnt. Fac., Waynoka, Major	84.00	0.00	0.00	0.00	444,341.02	0.00	444,425.02	0.00	1,276.26
National Standard Co., Stillwater, Payne	3,060.00	0.00	0.00	0.00	40,341.00	0.00	43,401.00	40,344.00	1.00
Holcim US Inc., Ada, Pontotoc	123.00	0.00	0.00	0.00	0.00	12,890.00	13,013.00	0.00	0.00
Grand River Dam Authority Coal Fired Complex, Chouteau, Mayes	1,858.26	0.00	0.00	0.00	0.00	6,573.00	8,431.26	0.00	0.00
Fort James Operating Co., Muskogee, Muskogee	272.00	20.91	0.00	0.00	0.00	4,638.00	4,930.91	0.23	0.00
Grede-Pryor Inc., Pryor, Mayes	3,698.00	0.00	0.00	0.00	0.00	0.00	3,698.00	0.00	0.00
Weyerhaeuser Co., Valliant, Mc Curtain	1,330.46	200.70	0.00	0.00	0.00	2,004.71	3,535.88	0.00	0.00
U.S. Air Force Tinker AFB Ok. Range Activities, Tinker A F B, Oklahoma	7.00	0.00	0.00	0.00	0.00	2,807.00	2,814.00	0.00	0.00
American Electric Power Northeastern Station, Oologah, Rogers	402.50	0.00	0.00	0.00	0.00	1,370.00	1,772.50	13.00	0.00
Conoco Inc. Ponca City Refy., Ponca City, Kay	1,176.00	30.00	0.00	0.00	0.00	479.00	1,685.00	131.60	173.00

\* The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 2001 Toxics Release Inventory

## OKLAHOMA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (All Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Weyerhaeuser Co., Valliant, Mc Curtain	0	0	0	0	5,326,623	4,694	3,998,995	9,330,312	0
Terra Nitrogen Ltd. L.P., Claremore, Rogers	2,333,000	0	0	0	0	0	3,270,610	5,603,610	7,300
Safety-Kleen Lone & Grassy Mountain Inc.-Lone Mnt. Fac., Waynoka, Major	0	0	0	0	190,478	3,088	2,446,742	2,640,308	0
Farmland Inds. Inc., Enid, Garfield	1,711,000	0	0	0	683,600	0	2,304,075	4,698,675	0
Protein Techs. Intl. Inc., Pryor, Mayes	0	0	0	0	19,243,206	0	1,901,529	21,144,735	0
Grand River Dam Authority Coal Fired Complex, Chouteau, Mayes	0	0	0	0	980,000	0	1,757,724	2,737,724	0
Baker Petrolite Corp., Barnsdall, Osage	34,130,000	0	0	1,000	0	0	750,900	34,881,900	146,600
Zinc Corp. Of America, Bartlesville, Washington	0	0	0	0	0	0	692,131	692,131	0
AES Shady Point Inc., Panama, Le Flore	0	0	0	0	0	0	686,340	686,340	0
Conoco Inc. Ponca City Refy., Ponca City, Kay	0	65,519	0	46	809,222	9	631,101	1,505,897	0

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (PBT Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Safety-Kleen Lone & Grassy Mountain Inc.-Lone Mnt. Fac., Waynoka, Major	0.00	0.00	0.00	0.00	0.00	0.00	445,701.00	445,701.00	0.00
Michelin N.A. Ardmore Plant, Ardmore, Carter	75,006.00	93,008.00	0.00	0.00	0.00	1,490.00	88,005.00	257,509.00	0.00
National Standard Co., Stillwater, Payne	0.00	653,589.00	0.00	0.00	0.00	3.00	43,406.00	696,998.00	0.00
Yaffe Iron & Metal Co. Inc., Muskogee, Muskogee	8,222.00	66,576.00	0.00	0.00	0.00	0.00	42,387.00	117,185.00	0.00
Zinc Corp. of America, Bartlesville, Washington	0.00	0.00	0.00	0.00	0.00	0.00	38,864.00	38,864.00	0.00
Holcim US Inc., Ada, Pontotoc	0.00	0.00	0.00	0.00	0.00	0.00	16,109.00	16,109.00	0.00
Delta Faucet of Oklahoma, Chickasha, Grady	0.00	0.00	0.00	0.00	0.00	0.00	12,865.00	12,865.00	0.00
Grand River Dam Authority Coal Fired Complex, Chouteau, Mayes	0.00	0.00	0.00	0.00	0.00	0.00	8,452.00	8,452.00	0.00
Valmont Coatings Oklahoma Galvanizing, Claremore, Rogers	0.00	10,000.00	0.00	0.00	0.00	0.00	6,600.00	16,600.00	0.00
Gulfstream Aerospace Techs., Bethany, Oklahoma	147,130.00	5,977.00	0.00	0.00	0.00	0.00	5,981.00	159,088.00	0.00

\* The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.